

**NOTES:**

1. Cable or slip joint to be used when specified.
2. Slip joint to be omitted when completely buried.

**PLASTIC PIPE DIMENSIONS AS TABULATED BELOW.**

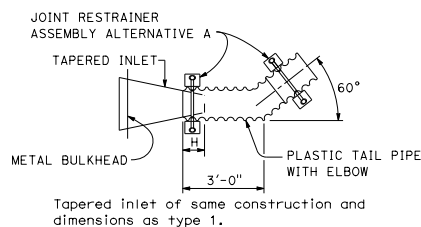
| P | 10" | 15" | 18" | 21" | 27" |
|---|-----|-----|-----|-----|-----|
| Q | 8"  | 12" | 15" | 18" | 24" |

| Dia | Min L  | M     | N     |
|-----|--------|-------|-------|
| 8"  | 10'-0" | 1'-6" | 8"    |
| 12" | 15'-0" | 1'-8" | 1'-0" |
| 15" | 25'-0" | 2'-0" | 1'-3" |
| 18" | 30'-0" | 2'-6" | 1'-4" |
| 24" | 40'-0" | 3'-0" | 1'-6" |

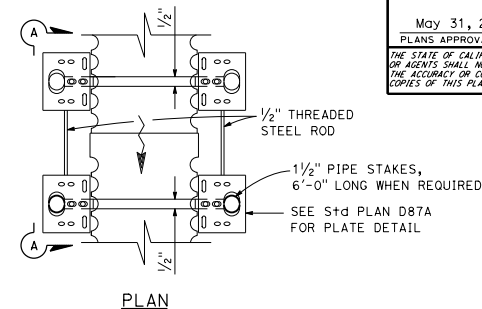
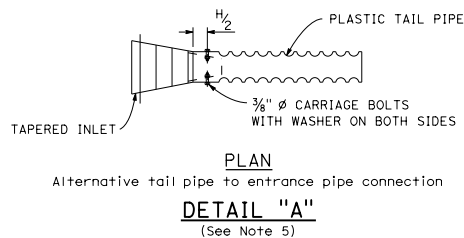
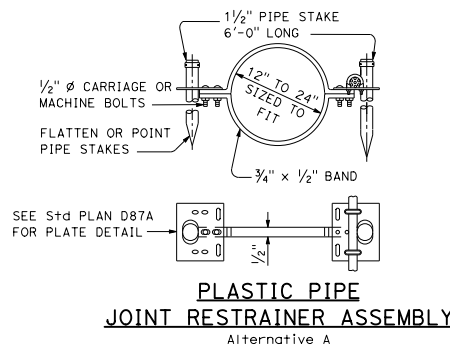
**TAPER JOINTS MAY BE WELDED OR RIVETED. DIMENSIONS TO BE AS TABULATED BELOW.**

| Dia | A      | B         | C      | D      | E  | F     | G     | H     |
|-----|--------|-----------|--------|--------|----|-------|-------|-------|
| 8"  | 1'-4"  | 2'-1 1/2" | 1'-3"  | 4 3/4" | 5" | 6'-0" | 2'-0" | 1'-0" |
| 12" | 1'-6"  | 2'-1 1/2" | 1'-7"  | 3 3/4" | 5" | 6'-0" | 2'-0" | 1'-0" |
| 15" | 1'-9"  | 2'-6"     | 1'-11" | 4 1/2" | 6" | 6'-0" | 2'-0" | 1'-2" |
| 18" | 2'-0"  | 2'-10"    | 2'-3"  | 5"     | 7" | 6'-0" | 2'-0" | 1'-4" |
| 24" | 2'-10" | 3'-10"    | 2'-11" | 6"     | 9" | 4'-0" | 4'-0" | 1'-6" |

**ENTRANCE TAPER - TYPE 1**



**ENTRANCE TAPER - TYPE 2**



**NOTES:**

1. See Standard Plan D87A for details of entrance taper placement at dike.
2. Pipe stakes to be used with joint restrainer when specified.
3. Entrance taper "H" dimension is length of insertion of metal taper into plastic pipe.
4. For cable anchorage system details, see Standard Plan D87C.
5. At contractors option, tail pipe and tapered inlet may be supplied from manufacturer as a pre-connected unit as shown in Detail "A".

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**PLASTIC PIPE DOWN DRAIN DETAILS**

NO SCALE

**D87B**

|      |        |       |                          |                    |
|------|--------|-------|--------------------------|--------------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET TOTAL SHEETS |
|      |        |       |                          |                    |

REGISTERED CIVIL ENGINEER  
May 31, 2018  
PLANS APPROVAL DATE  
Bruce D. Swanger  
No. C61257  
EXP. 6-30-19  
CIVIL  
STATE OF CALIFORNIA

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